OWNER'S MANUAL

MAGNAVOX

Smart. Very smart.®

MC09E1MG/MC092EMG

COLOR TV WITH BUILT-IN VCR

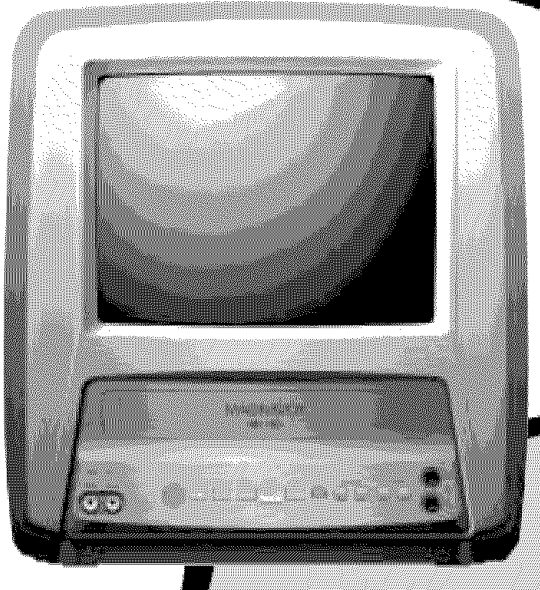
NEED HELP? CALL US!

MAGNAVOX REPRESENTATIVES ARE READY TO HELP YOU WITH ANY QUESTIONS ABOUT YOUR NEW PRODUCT. WE CAN GUIDE YOU THROUGH CONNECTIONS, FIRST-TIME SETUP, AND ANY OF THE FEATURES. WE WANT YOU TO START ENJOYING YOUR NEW PRODUCT RIGHT AWAY.

CALL US BEFORE YOU CONSIDER RETURNING THE PRODUCT.

1-800-705-2000

OR VISIT US ON THE WEB AT WWW.MAGNAVOX.COM



IMPORTANT!

RETURN YOUR WARRANTY REGISTRATION CARD WITHIN 10 DAYS.

SEE WHY INSIDE.

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your purchase, and welcome to the "family!"

Dear MAGNAVOX product owner:

Thank you for your confidence in MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome-and thanks for investing in a MAGNAVOX product.

P.S. Remember, to get the most from your MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety** *symbols*

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No._____

Serial No. _____

Visit our World Wide Web Site at http://www.magnavox.com

Welcome to your TV/VCR owner's manual.

This manual describes the MC09E1MG and MC092EMG. The models may look different, but they operate exactly the same. The MC09E1MG is illustrated in this manual.

Features

- Automatic Channel Setup
- Automatic Head Cleaner
- Automatic Tracking Adjustment
- Daylight-Savings Time
- English or Spanish displays and menus
- High Quality (HQ) System
- One-Touch Recording
- Remote Control or Front Panel menu access
- Rental Playback
- Repeat Play
- ShowGuard™ - Indefinite Timer Recording memory
- Sleep Timer
- Special Effects: Forward and Reverse Searching; Still
- Time Search
- Timer Recording
- Wake Up Timer
- Zero Return

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Magnavox recommends you use only videotapes that have the VHS mark. Other tapes may cause poor picture quality and excessive deposits on the video heads that the warranty may not cover if damage occurs.

This TV/VCR has a High Quality (HQ) system and is compatible with existing Video Home System (VHS) equipment.

Note to the Cable TV System Installer: This reminder calls the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding – in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Declaration of Conformity

Model Number: MC09E1MG, MC092EMG
Trade Name: Magnavox
Responsible Party: Philips Consumer Electronics
P.O. Box 14810
Knoxville, TN 37914-1810
(865) 521-4316

As an ENERGY STAR® Partner, Magnavox has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR® is a U.S. registered mark. Using products with the ENERGY STAR® label can save energy. Saving energy reduces air pollution and lowers utility bills.

ShowGuard™ is a trademark of Philips Consumer Electronics.
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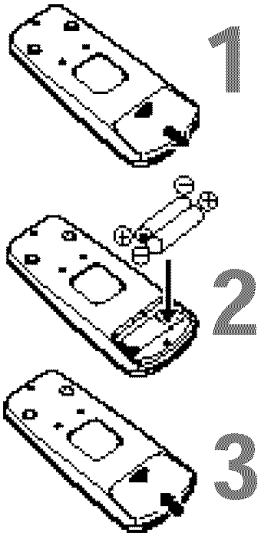
Putting Batteries in the Remote Control



1 **Remove the battery compartment lid** on the bottom of the remote control by sliding the lid down and off, following the direction of the arrow on the lid.

2 **Place two AA batteries inside the battery compartment** with their + and – ends aligned as indicated.

3 **Replace the battery compartment lid.**

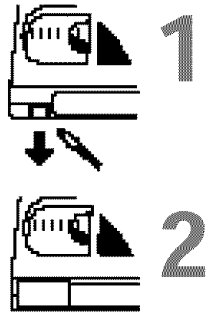
Battery Safety

Battery Usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:

- Install ALL batteries correctly, with the + and - markings on the battery aligned as indicated on the unit;
- Do not mix batteries, for example, old with new or carbon with alkaline; and
- Remove batteries when the unit will not be used for a long time.

Recording Prevention

Videotapes have record tabs to ensure you do not erase recordings accidentally.



1 **To prevent accidental recording, break off the tab with a screwdriver.**

2 **To record again on the same tape, cover the hole with cellophane tape.**

Using the Remote Control

- Point the remote control at the front of the TV/VCR.
- Do not put objects between the remote control and the TV/VCR.

TV/VCR Maintenance

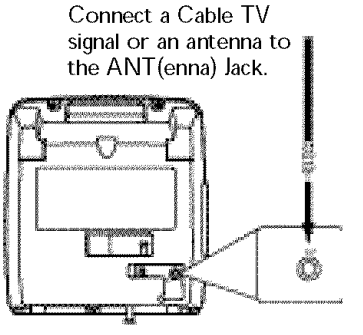
- In this TV/VCR, use only tapes with the VHS mark.
- Remove any light adhesive stick-on notes from the videotape before putting the tape in the TV/VCR. Removable labels can jam the TV/VCR.
- The TV/VCR requires periodic maintenance to maintain its excellent performance. This TV/VCR has an internal automatic head cleaning system. However, the video heads will eventually require cleaning or replacement. Only an authorized service center should perform this service.

Helpful Hint

- *Your new product, its packaging, and this manual contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount that needs to be properly disposed. Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old product, batteries, manual, and packaging when you replace existing equipment.*

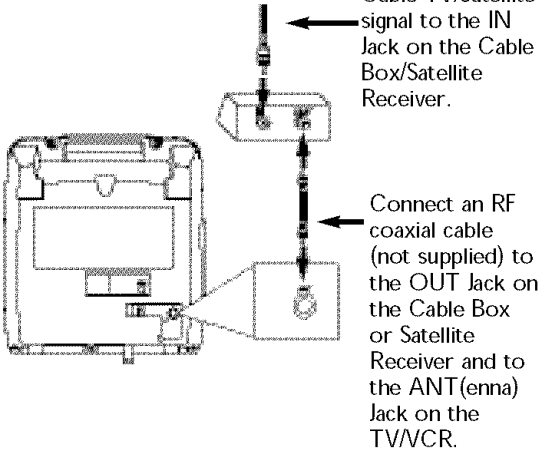
6 Hooking Up the TV/VCR

1 **Hook up your TV/VCR using one of the connections shown.**

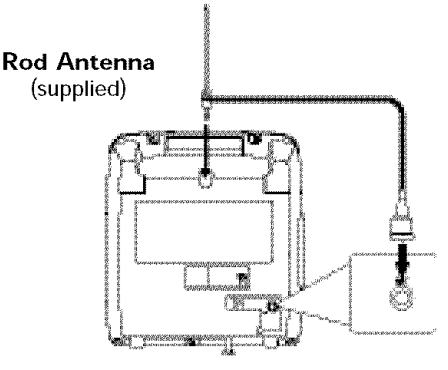


A **Hooking Up Your TV/VCR With a Cable TV Signal or Outdoor Antenna**

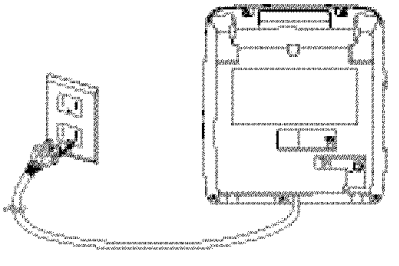
B **Hooking Up Your TV/VCR With a Cable Box/Satellite Receiver**
To view any channel, set the TV/VCR to the Cable Box/Satellite Receiver output channel (channel 03 or 04). Then, select channels at the Cable Box/Satellite Receiver.


Connect the Cable TV/Satellite signal to the IN Jack on the Cable Box/Satellite Receiver.
Connect an RF coaxial cable (not supplied) to the OUT Jack on the Cable Box or Satellite Receiver and to the ANT(enna) Jack on the TV/VCR.

C **Hooking Up Your TV/VCR With the Supplied Rod Antenna**
To install the supplied rod antenna, push the stem of the antenna into the antenna hole at the top on the rear of the TV/VCR. Connect the antenna wire to the ANT(enna) Jack on the rear of the TV/VCR as shown. Extend the antenna and adjust its length, direction, and angle for the clearest picture.



2 **Plug the AC power cord into an AC power outlet.**



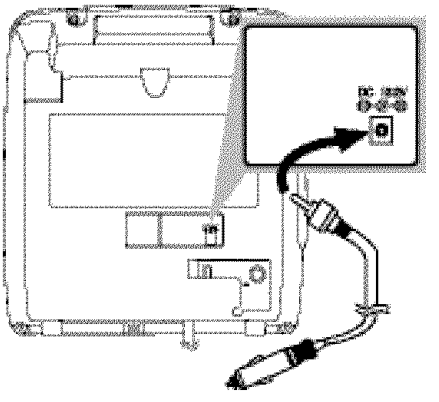
3 **Follow the steps on page eight when you turn on the TV/VCR for the first time.**

Mobile Connections

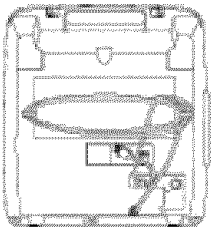
Usually, the supplied rod antenna provides adequate reception. When you want to watch TV outdoors or in a vehicle, try a mobile antenna (not supplied); or, try an indoor dipole antenna (not supplied) for better reception.

1 **Connect an antenna to the ANT(enna) jack as shown at 1-C on page six.** If you do not use the supplied rod antenna, refer to the instructions with your other antenna to make a connection.

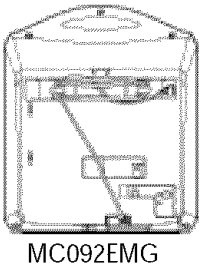
2 Make sure your vehicle has a 13.2-volt, negative ground electrical system. **Connect one end of the car battery cord to the DC 13.2V jack on the rear of the TV/VCR. Connect the other end of the car battery cord to the cigarette lighter in your vehicle.**
Use only the supplied car battery cord. Using another cord could damage the TV/VCR. Make sure you push the car battery cord's plug completely into the cigarette lighter.
Wind the unused AC power cord as shown at right.



Car Battery Cord



MC09E1MG

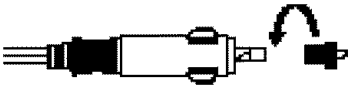


MC092EMG

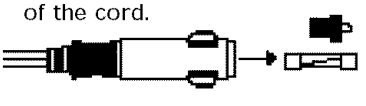
Fuse Replacement

If the TV/VCR does not have power when connected properly in your vehicle, replace the fuse in the car battery cord. **Use only a 5-amp, 250-volt, fast blow fuse,** which is available at an electronics retailer.

1 To remove the old fuse, unscrew the red cap from the end of the cord. Place your fingers on the grooved part of the cap and turn the cap counterclockwise.

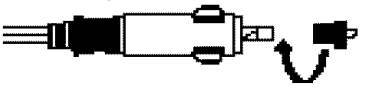


2 When the cap is removed, the red cap and the silver tip will be loose. The fuse will be loose inside the end of the cord.



3 Remove the old fuse and insert a new fuse.

4 Replace the red cap and the silver tip. The fuse will tighten into place as you screw on the cap, turning the cap clockwise. (The end of the fuse will fit into the silver tip, which is in the center of the red cap when tightened.)

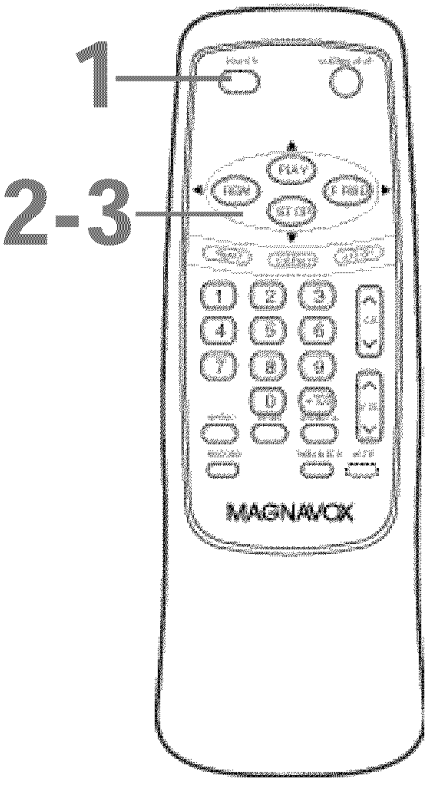


Helpful Hints

- *Do not watch TV while driving.*
- *Make sure the cigarette lighter is free of ashes and other debris.*
- *Always unplug the car battery cord from the cigarette lighter before you unplug it from the TV/VCR.*
- *You must disconnect the car battery cord from the TV/VCR before you can use standard electrical (AC) power.*
- *If you use the TV/VCR with the vehicle's engine off, recharge the vehicle's battery often. Unplug the car battery cord from the cigarette lighter when you finish using the TV/VCR.*
- *When you use the TV/VCR with a car battery cord, noise may appear on the TV/VCR screen.*
- *Do not use this TV/VCR in high temperature conditions. Details are on page 41.*

8 Setting TV Channels for the First Time

The TV/VCR can memorize the channels you receive in your area. If you are using a Cable Box or Satellite Receiver, you do not need to set channels at the TV/VCR. Set the TV/VCR to the output channel of the Cable Box or Satellite Receiver (channel 03 or 04). Then select the channel to be viewed on the Cable Box or Satellite Receiver.
If you do not see these menus when you turn on the TV/VCR for the very first time, set TV channels as instructed on page 10 instead.



1 **Press POWER** to turn on the TV/VCR.

2 **Press F.FWD/► or REW/◄ to select ENGLISH or ESPAÑOL (Spanish).** The selected language will appear inside the [ ].

```
- SET UP -

► LANGUAGE
  [ENGLISH]  ESPAÑOL

  AUTO PRESET
```

3 **Press PLAY/▲ or STOP/▼ to select AUTO PRESET. Then press F.FWD/►.** The TV/VCR scans and memorizes all active channels in your area. When scanning is complete, the TV/VCR will go to the lowest available channel.
Use the CH(annel) ▲/▼ button to select memorized channels. Use the Number buttons to select non-memorized channels.

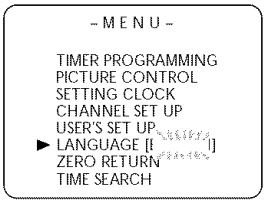
```
- SET UP -

  LANGUAGE
  [ENGLISH]  ESPAÑOL

► AUTO PRESET
```

Helpful Hints

- *To remove the SET UP menu without changing the language or setting up channels, press the MENU button. To set up channels later, see Resetting TV Channels on page 10.*
- *To select cable TV channels higher than 99, press the +100 button, then press the Number buttons for the last two digits. For example, to select channel 125, press +100, 2, 5. Precede single-digit channel numbers with a zero (for example, 01 ... 09).*
- *You will need to set up the language and channels again after a power failure.*

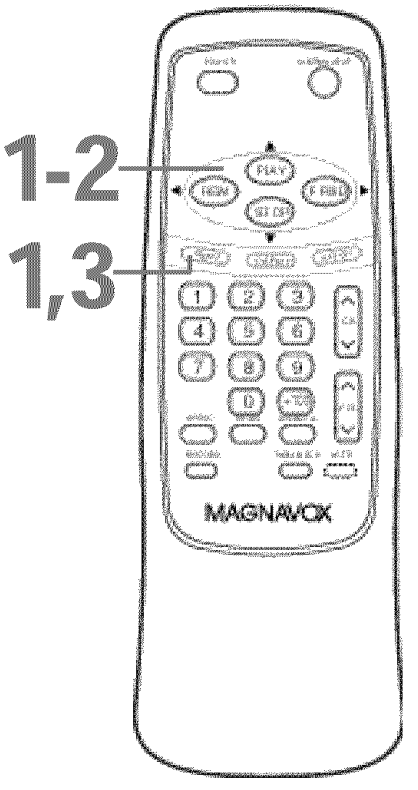
This function affects only the language of the TV/VCR's menu, not the audio of TV programming or videotapes.

1 **Press MENU. Press PLAY/▲ or STOP/▼ to select LANGUAGE.**



2 **Press F.FWD/► or REW/◄ to select ENGLISH or ESPAÑOL (Spanish).**

3 **Press MENU to remove the menu.**

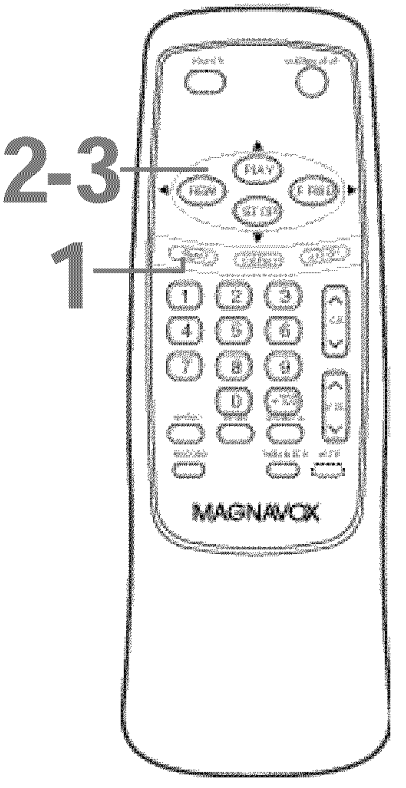


Helpful Hint

- *If the menu is in Spanish but you prefer English, press MENU, then press PLAY/▲ or STOP/▼ to select IDIOMA [ESPAÑOL]. Press F.FWD/► to select ENGLISH. Press MENU to remove the menu.*

10 Resetting TV Channels

Although the TV/VCR may memorize the channels you receive when you turn it on the first time, you may set up channels again by following the steps below.



1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select CHANNEL SET UP. Press F.FWD/►.**

```
- M E N U -

  TIMER PROGRAMMING
  PICTURE CONTROL
  SETTING CLOCK
► CHANNEL SET UP
  USER'S SET UP
  LANGUAGE [ENGLISH]
  ZERO RETURN
  TIME SEARCH
```

3 **Press PLAY/▲ or STOP/▼ to select AUTO PRESET. Then, press F.FWD/►.**

The TV/VCR scans and memorizes all the active channels.

When scanning is complete, the TV/VCR will go to the lowest available channel.

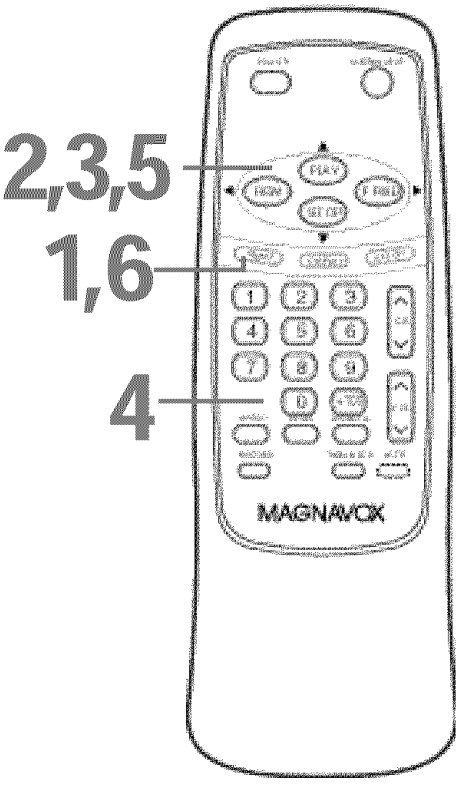
Use the CH(annel) ▲/▼ button to select memorized channels. Use the Number buttons to select non-memorized channels.

```
- CHANNEL SET UP -

  ADD / DELETE CH (TV)

► AUTO PRESET
```

Helpful Hint

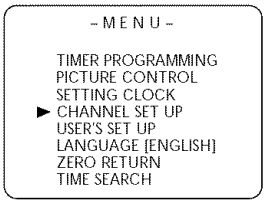
- *The TV/VCR cannot control or change the channels of a Cable Box or Satellite Receiver.*

The channels you no longer receive or seldom watch can be deleted from the memory. Or, you can add new channels into the memory without having to reset all the channels. This lets you see only the channels you want when you use the CH(annel) ▲/▼ button to scan through channels.

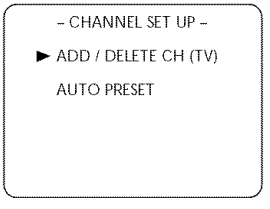


1 **Press MENU.**

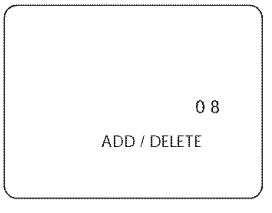
2 **Press PLAY/▲ or STOP/▼ to select CHANNEL SET UP. Press F.FWD/►.**



3 **Press PLAY/▲ or STOP/▼ to select ADD/DELETE CH. Then, press F.FWD/►.**



4 **Press the Number buttons to choose a channel you want to add or delete.**



5 **Press F.FWD/► or REW/◄ to add or delete the channel.** Deleted channels will appear in light purple. Added channels will appear in light blue. To add or delete other channels, repeat steps 4-5.

6 **Press MENU to remove the menu.**

Helpful Hints

- *To confirm that a channel has been added or deleted, press the CH(annel) ▲/▼ button to see if you can or cannot select the channel. Only memorized or added channels can be selected with CH(annel) ▲/▼. You still can select any channel with the Number buttons on the remote control.*
- *If you have Cable TV, channels 1-125 are possibly available. If you have an antenna, channels 2-69 are possibly available.*
- *TV or CATV will appear beside ADD/DELETE CH. This indicates whether you have Cable TV (CATV) or an antenna (TV) connected to the TV/VCR. The TV/VCR detects this internally when Auto Preset is completed. You cannot adjust it.*

12 Setting the Clock

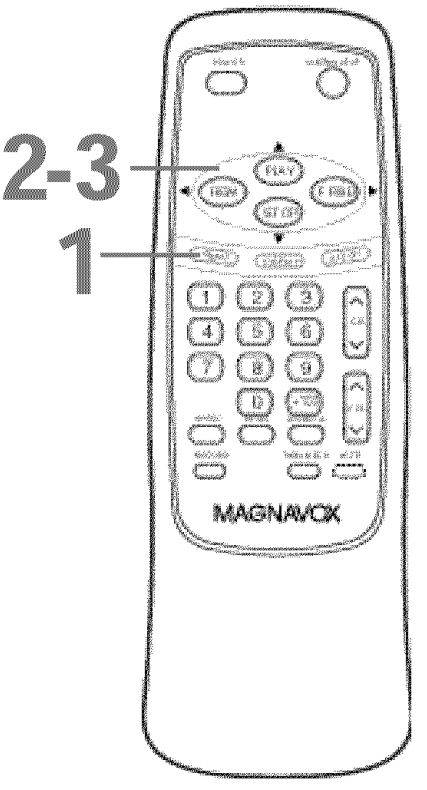
Set the clock accurately for proper timer recording. If a Public Broadcasting Station (PBS) is available in your area, follow Auto Clock Setting below. If not, follow Manual Clock Setting on pages 14-15.

Auto Clock Setting

You can have the TV/VCR set the clock using the PBS channel. Once you have set the clock, the TV/VCR will monitor the correct time and date being broadcast by the PBS station and update the time accordingly.

Before you begin, make sure ...

- The TV/VCR power is on.
- The antenna/Cable TV connections are correct.
- The Cable Box is on (if applicable). (See Helpful Hints.)
- Channels are set. *Details are on pages eight and 10.*



1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select SETTING CLOCK, then press F.FWD/►.**

```
- M E N U -

  TIMER PROGRAMMING
  PICTURE CONTROL
► SETTING CLOCK
  CHANNEL SET UP
  USER'S SET UP
  LANGUAGE [ENGLISH]
  ZERO RETURN
  TIME SEARCH
```

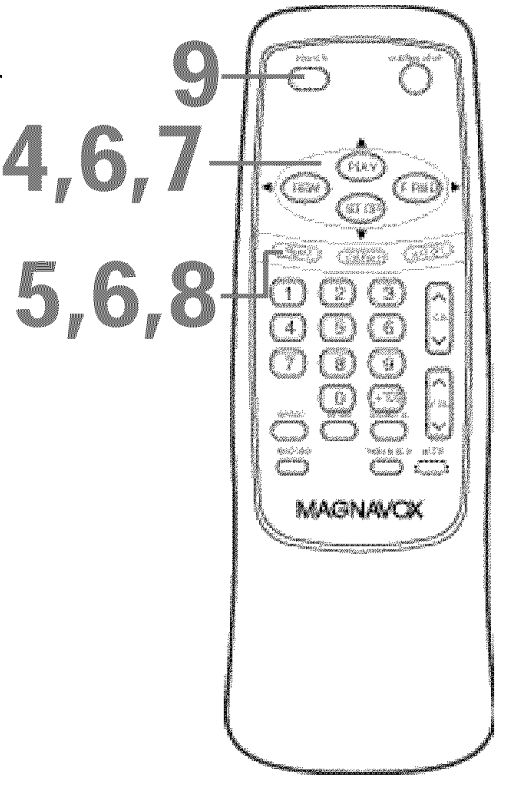
3 **With AUTO CLOCK selected, press F.FWD/► or REW/◄ until ON appears beside AUTO CLOCK.**

```
- SETTING CLOCK -

► AUTO CLOCK          [ON]
  AUTO CLOCK CH SEARCH
  AUTO CLOCK CH  [ 02 ]
  MANUAL CLOCK SET
  D.S.T.              [OFF]
```

Helpful Hints

- *If the TV/VCR is connected to a Cable Box or Satellite Receiver, select the local PBS station on the Cable Box/Satellite Receiver. Set the TV/VCR to the output channel of the Cable Box or Satellite Receiver (usually channel 3 or 4), to set the clock automatically.*
- *The TV/VCR cannot control or change the channels of the Cable Box or Satellite Receiver.*
- *If you use the mobile connections described on page seven, you cannot use the AUTO CLOCK function.*

4 **If you already know your PBS channel number, skip ahead to step 7.**
If you do not know the channel number of your PBS station, press STOP/▼ to select AUTO CLOCK CH SEARCH, then press F.FWD/►.




```
- SETTING CLOCK -

  AUTO CLOCK        [ON]
► AUTO CLOCK CH SEARCH
  AUTO CLOCK CH  [ 02 ]
  MANUAL CLOCK SET
  D.S.T.            [OFF]
```

The TV/VCR will scan all your available TV channels. Those that carry a time signal will be listed at the top of the screen. Use one of these channels when you enter your AUTO CLOCK CH at step 7. It will take the TV/VCR several minutes to scan the channels. An "_ _" appears in the lower left corner of the screen when the search is complete.

```
-AUTO CLOCK CH SEARCH-

08 10 13

_ _
```

5 **Press MENU to remove the menu.**

6 **Press MENU. Press PLAY/▲ or STOP/▼ to select SETTING CLOCK, then press F.FWD/►.**

7 **Press PLAY/▲ or STOP/▼ to select AUTO CLOCK CH. Then press F.FWD/► or REW/◄ until the channel number of your PBS station appears.**
Use the channel number you found at step 4.

```
- SETTING CLOCK -

  AUTO CLOCK        [ON]
  AUTO CLOCK CH SEARCH
► AUTO CLOCK CH  [ 02 ]
  MANUAL CLOCK SET
  D.S.T.            [OFF]
```

8 **Press MENU to remove the menu.**

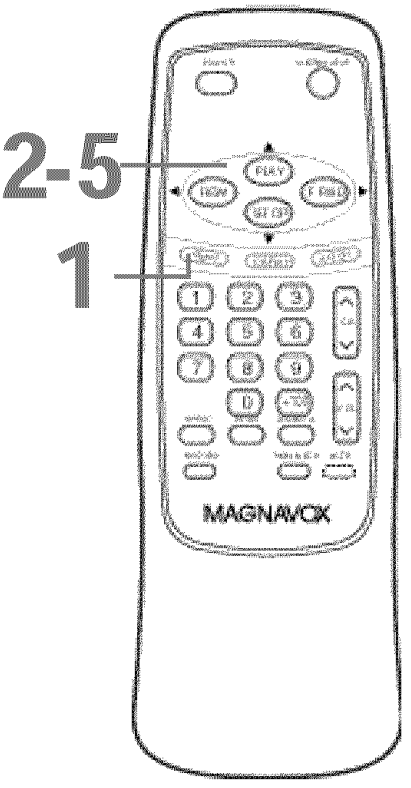
9 **Press POWER to turn off the TV/VCR.**
The TV/VCR will search for the time only when the power is off. Leave it off for several minutes to give the TV/VCR time to set the clock.

Helpful Hints

- *If the TV/VCR sets the time incorrectly, it may have taken the time from a PBS station in a different time zone. Follow the steps for Manual Clock Setting on pages 14-15.*
- *If no channel numbers appear during the channel search at step 4, there are no stations in your area that contain the time signal. Use Manual Clock Setting on pages 14-15.*
- *To stop the channel search during step 4, press the MENU button.*

14 Setting the Clock (cont'd)

Manual Clock Setting



1 Press MENU.

2 Press PLAY/▲ or STOP/▼ to select SETTING CLOCK. Then, press F.FWD/►.

```
- M E N U -

TIMER PROGRAMMING
PICTURE CONTROL
► SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
LANGUAGE [ENGLISH]
ZERO RETURN
TIME SEARCH
```

3 Press PLAY/▲ or STOP/▼ to select MANUAL CLOCK SET. Then, press F.FWD/►.

```
- SETTING CLOCK -

AUTO CLOCK        [ON]
AUTO CLOCK CH SEARCH
AUTO CLOCK CH  [ 02 ]
► MANUAL CLOCK SET
D.S.T.            [OFF]
```

4 While the MONTH space is flashing, press PLAY/▲ or STOP/▼ until the correct month appears. Then, press F.FWD/►.

```
- MANUAL CLOCK SET-

MONTH  DAY      YEAR
       -- ---  ----

HOUR   MINUTE
-- : -- --
```

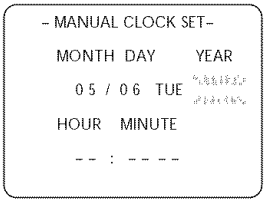
5 While the DAY space is flashing, press PLAY/▲ or STOP/▼ until the correct day appears. Then, press F.FWD/►.

```
- MANUAL CLOCK SET-

MONTH  DAY      YEAR
 05 /  --       ----

HOUR   MINUTE
-- : ----
```

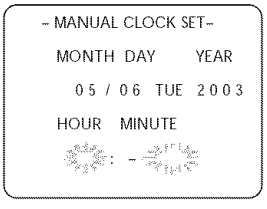
Helpful Hints

- *If the power fails, you must reset the clock.*
- *If you set the clock using MANUAL CLOCK SET, then later want to use AUTO CLOCK, you must disconnect the TV/VCR from power for about two minutes. After reconnecting the power cord, the TV/VCR will reset to its default settings. Complete the first-time setup again as detailed on page eight. Then, use AUTO CLOCK to set the clock.*

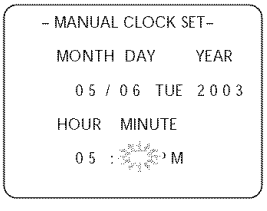
6 **While the YEAR space is flashing, press PLAY/▲ or STOP/▼ until the correct year appears.** The day of the week (Tuesday - TUE, etc.) will change appropriately for the year you select **Press F.FWD/▶.**



7 **While the HOUR space is flashing, press PLAY/▲ or STOP/▼ until the correct hour and AM or PM appears. Then, press F.FWD/▶.**

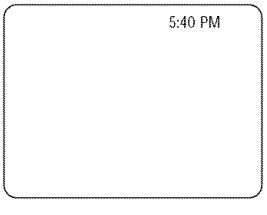


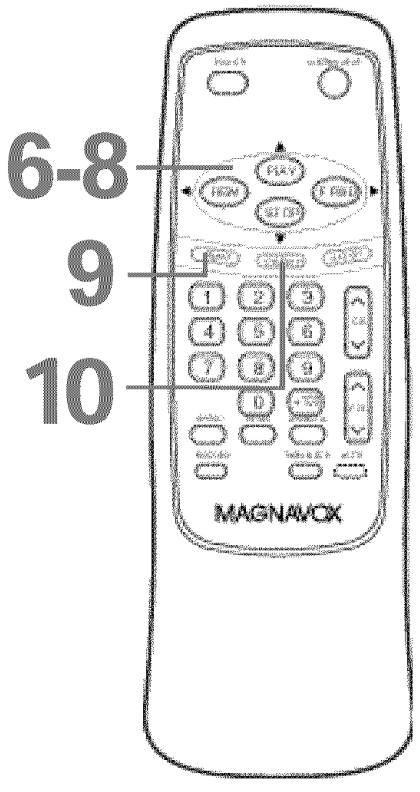
8 **While the MINUTE space is flashing, press PLAY/▲ or STOP/▼ until the correct minute appears.**



9 **Press MENU.** Although seconds are not displayed, they begin counting from zero when you press MENU. Use this feature to synchronize the clock exactly.

10 **To see the current time on the TV screen, press DISPLAY.** *Details are on page 20.*



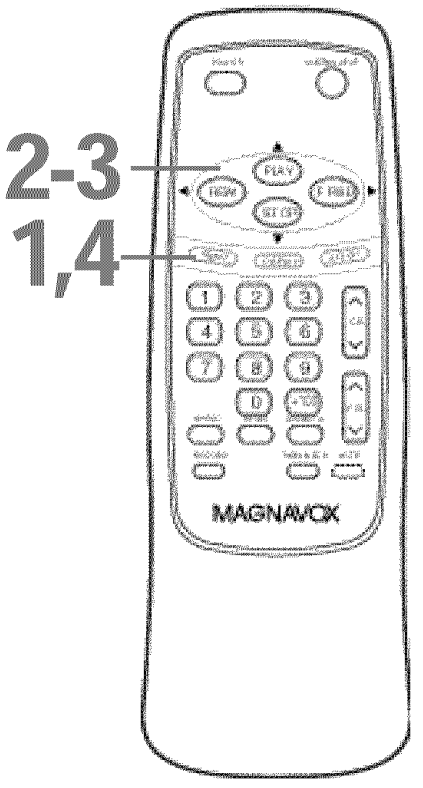


Helpful Hint

- *To adjust the clock later, follow steps 1-3 on page 14. Then, press F.FWD/▶ or REW/◀ to select the item you want to change. Enter the correct information by pressing PLAY/▲ or STOP/▼. Press MENU when you are finished.*

16 Daylight-Savings Time

When Daylight-Savings Time (D.S.T.) is ON, the TV/VCR clock will automatically move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October.
To turn Daylight-Savings Time ON or OFF, follow the steps below.



1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select SETTING CLOCK. Then, press F.FWD/►.**

```
- M E N U -

  TIMER PROGRAMMING
  PICTURE CONTROL
► SETTING CLOCK
  CHANNEL SET UP
  USER'S SET UP
  LANGUAGE [ENGLISH]
  ZERO RETURN
  TIME SEARCH
```

3 **Press PLAY/▲ or STOP/▼ to select D.S.T. Then press F.FWD/► or REW/◄ until ON or OFF appears.**

```
- SETTING CLOCK -

  AUTO CLOCK        [ON]
  AUTO CLOCK CH SEARCH
  AUTO CLOCK CH  [ 02 ]
  MANUAL CLOCK SET
► D.S.T.
```

4 **Press MENU to remove the menu.**

Helpful Hint

- *If you use the mobile connections described on page seven, you must set the clock manually in order to use Daylight Savings Time. Details are on pages 14-15.*

PLAY/▲ Button
Press to play a tape. *Details are on page 22.* Press to select a menu item. Press to enter numbers when setting a timer recording or the clock.

POWER Button
Press to turn on or off the TV/VCR.

REW/◄ (rewind) Button
When tape playback is stopped, press to rewind the tape at high speed. During tape playback, press to rewind the tape while the picture stays on the screen. *Details are on page 23.* Press to change a menu setting.

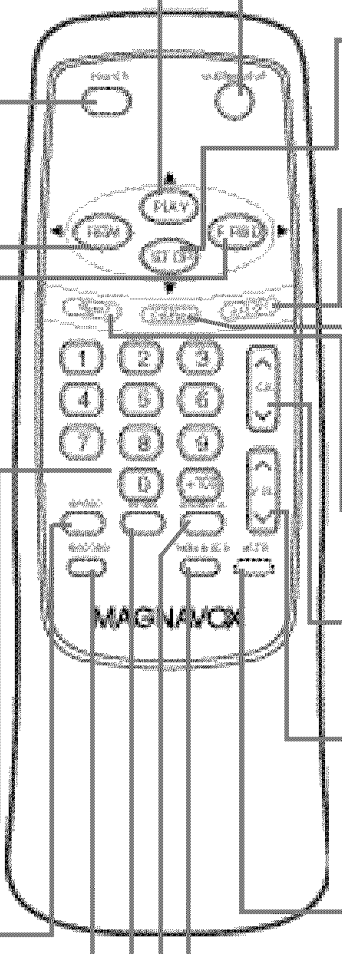
F.FWD/► (fast forward) Button
When tape playback is stopped, press to fast forward the tape at high speed. During tape playback, press to fast forward the tape while the picture stays on the screen. *Details are on page 23.* Press to select a menu item or to change a menu setting.

Number Buttons
Use to select TV channels. *Details are on page eight.*

SPEED Button
Press to select the recording tape speed (SP or SLP). *Details are on page 24.*

RECORD Button
Press to start a recording. *Details are on page 24.*

RESET Button
Press to reset the tape counter to 0:00:00. *Details are on page 33.*



SLEEP/WAKE UP Button
Press to set the Sleep Timer. *Details are on page 35.* Press to set the Wake Up Timer. *Details are on page 36.*

STOP/▼ Button
Press to stop the tape. Press to select a menu item. Press to enter numbers when setting the clock or a timer recording.

ALT. CH (Alternate Channel) Button
Press to return to the TV channel you were viewing previously.

DISPLAY Button
Press to see the tape status, channel number, or time on the TV screen. *Details are on page 20.*

MENU Button
Press to access or remove menus.

CH(annel) ▲/▼ Button
Press to scan through the TV/VCR's available channels.

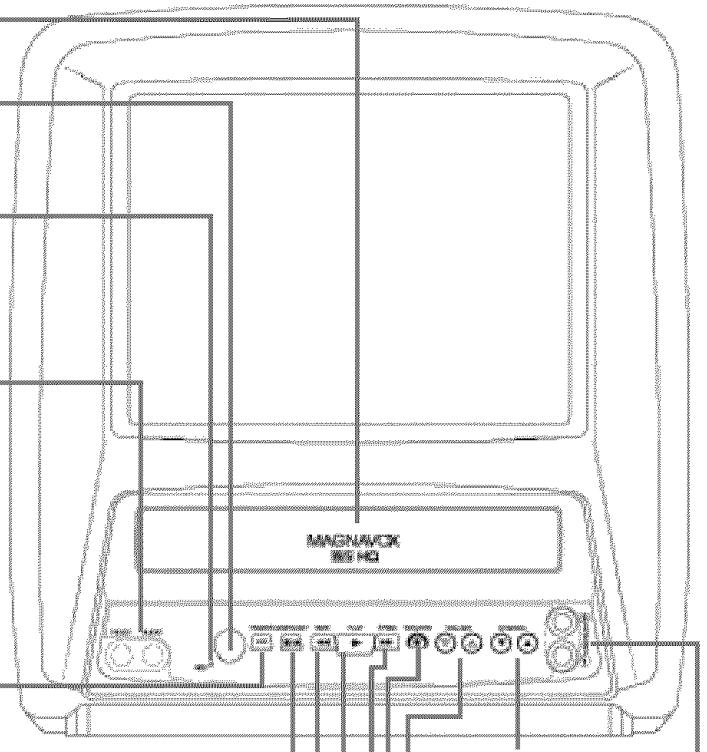
VOL(ume) ▲/▼ Button
Press to adjust the sound level. Pressing VOL(ume) ▲/▼when the sound is muted will restore the sound.

MUTE Button
Press to eliminate the TV/VCR's sound. Press again to return to the previous volume level.

TIME SEARCH Button
Press to activate a Time Search. *Details are on page 34.*

PAUSE/STILL Button
Press to pause recording. Press again to resume recording. *Details are on page 24.*
During tape playback, press to freeze the picture (still). *Details are on page 23.*

18 Front Panel



Cassette Compartment
Insert a videotape here.

Remote Sensor
Receives a signal from your remote so you can operate the TV/VCR from a distance.

REC(ord) Light
This light flashes during a recording and when recording is paused. It stays on when the TV/VCR is off for a timer recording.

AUDIO and VIDEO In Jacks
Connect these jacks to the Audio and Video Out jacks of a Camcorder, VCR, DVD Player, etc. This is useful if you want to watch material playing on other equipment at the TV/VCR.
Details are on page 30.

POWER Button
Press to turn the TV/VCR on or off.

STOP/EJECT Button
Press once to stop the tape. When playback is stopped, press to eject the tape. Press to select an item in the menu.

REW (rewind) Button
Press to rewind a videotape. *Details are on page 23.*
Press to change a setting of a menu item.

PLAY Button
Press to play a tape. *Details are on page 22.*
Press to select a menu item.

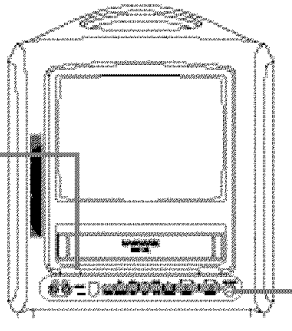
F.FWD (Fast Forward) Button
Press to fast forward a videotape. *Details are on page 23.* Press to change a setting of a menu item or to go to the next menu.

REC/OTR (record/one-touch recording) Button
Press once to start a recording. *Details are on page 24.*
Press repeatedly for a One-Touch Recording.
Details are on page 25.

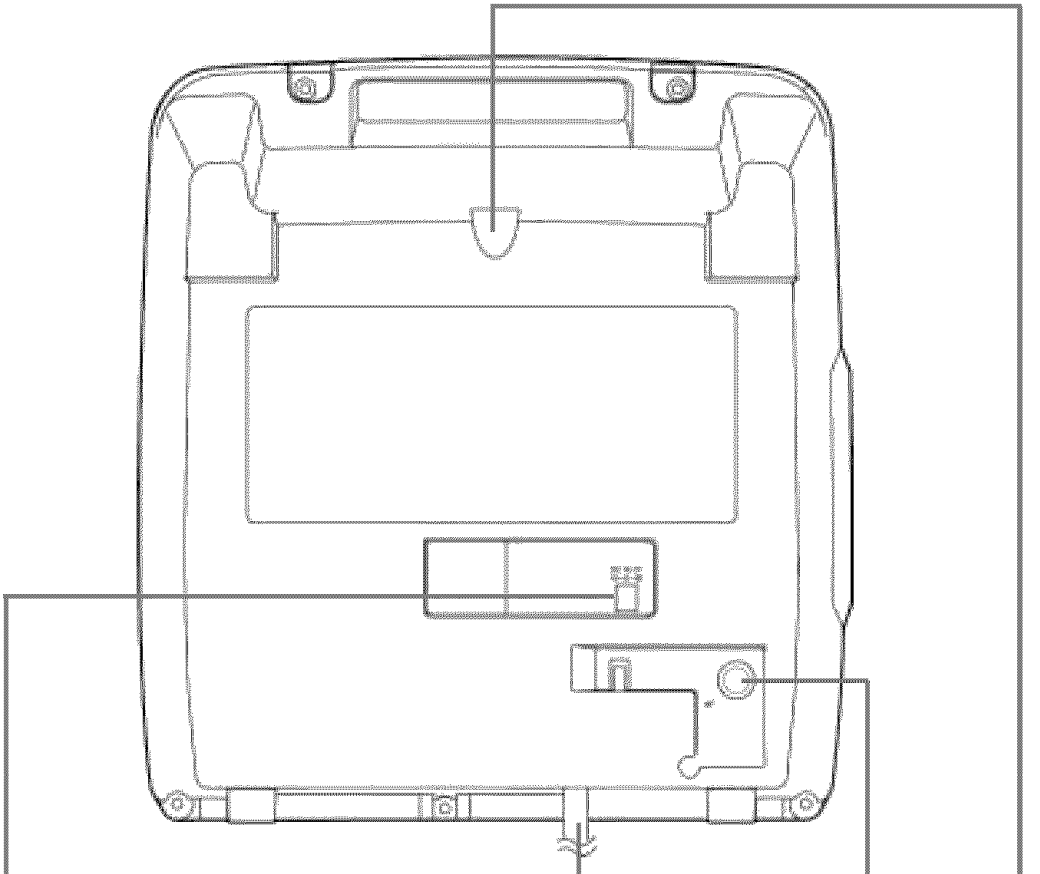
CHANNEL ▲/▼ Buttons
Press to select a memorized TV channel. Press to adjust tracking. *Details are on page 37.*
To access the menu, press CHANNEL ▲ while in line input (AUX) mode. Press again to remove the menu and go to your lowest TV channel.

VOLUME ▲/▼ Buttons
Press to adjust the sound level. Pressing VOLUME while the sound is muted will restore the sound.

EARPHONE Jacks
Connect headphones (not supplied) to the EARPHONE jacks. The MC092EMG has one jack. Use it for personal listening. There will be no sound from the TV/VCR's speakers.
The MC09E1MG has two jacks. Use jack 1 for personal listening (no sound from TV/VCR speakers). If you use only jack 2, there will be sound from the TV/VCR speakers. Or, use both jacks and the TV/VCR speakers will be muted.



Screen Cover (MC092EMG only)
The TV/VCR screen is protected by a removable screen cover. If you want to remove the screen cover, slide in the two tabs that hold the cover in place, then pull off the cover.



AC Power Cord
Connect to a standard AC outlet to supply power to the TV/VCR.

ANT(enna) Jack
Connect your antenna or Cable TV signal here. *Details are on pages six-seven.*

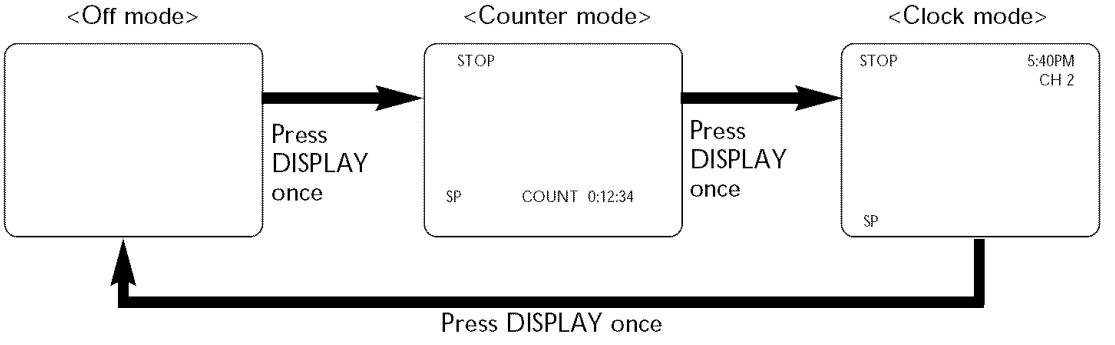
DC 13.2V Jack
Connect the car battery cord here. *Details are on page seven.*

Antenna Hole
Connect the base stem of the supplied rod antenna here. *Details are on pages six-seven.*

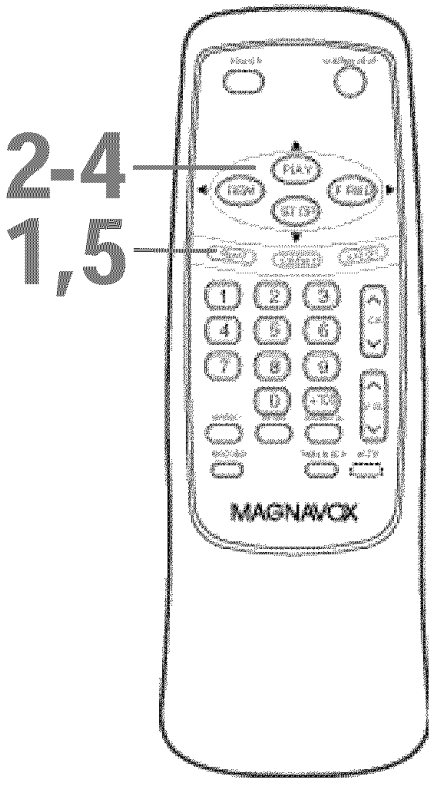
20 On-Screen Status Displays

To check the Counter, Clock, and Channel number on the TV screen, press DISPLAY on the remote control. Each time you press DISPLAY, the TV screen will change as described below.

- Counter mode: After five seconds, only the counter remains. To clear it, press DISPLAY twice.
- Clock mode: After five seconds, only the clock and channel number remain. To clear them, press DISPLAY.

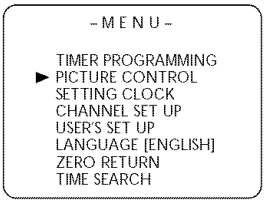


Follow these steps to adjust the TV/VCR's brightness, color, tint, sharpness, and contrast.

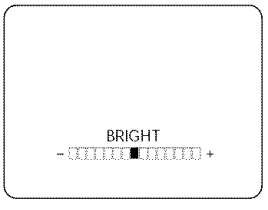


1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select PICTURE CONTROL. Then, press F.FWD/►.**



3 **Within five seconds, press PLAY/▲ or STOP/▼ until the desired control is displayed.** You can select BRIGHT, CONTRAST, COLOR, TINT, or SHARPNESS.



4 **Within five seconds, press F.FWD/► or REW/◄ to adjust the control.**

	REW/◄	F.FWD/►
BRIGHT	decreased brightness	increased brightness; more white in the picture
CONTRAST	decreased contrast	increased contrast; distinction between black and white parts of picture
COLOR	paler	more brilliant
TINT	more purple	more green
SHARPNESS	softer	more clear

5 **Press MENU to remove the picture controls.** Or, they will disappear automatically five seconds after you make the last adjustment.

Helpful Hint

- *The TV/VCR will retain the Picture Control settings even if the power fails.*

22 Playing a Videotape

Follow the steps below to play a tape.

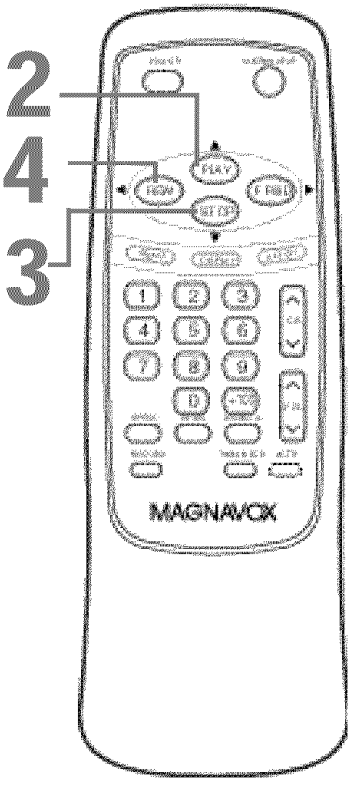
1 **Insert a tape in the TV/VCR's cassette compartment.**
The power will come on. If the tape's record tab is missing, playback should start automatically.

2 **If playback does not start automatically, press PLAY/▲ .**

3 **Press STOP/▼ to stop playback.**

4 **Press REW(ind)/◄ to rewind the tape.**

5 **When the tape finishes rewinding, press STOP/EJECT on the front of the TV/VCR to remove the tape.**



1 Insert a tape.

5 Press STOP/EJECT on the TV/VCR to remove the tape.

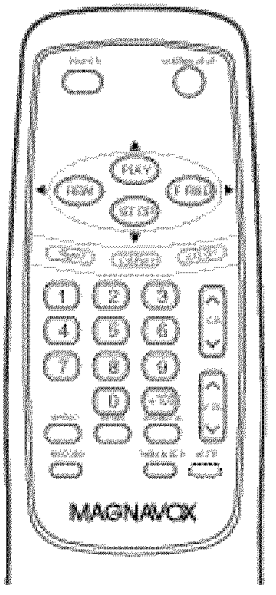
Helpful Hints

- *If the tape you want to play is already in the TV/VCR, turn on the TV/VCR power, then press PLAY/▲ .*
- *Playback features and options are on pages 23 and 31-34.*
- *If a timer recording is set, the power will not come on when you insert a tape with its record tab intact. If a timer recording is set and the TV/VCR power is off, the TV/VCR will eject the tape if the record tab is missing.*

Forward and Reverse Searching (SP/LP/SLP)

1 **During tape playback, press and release F.FWD/▶ or REW(ind)/◀.**
A fast forward or reverse picture search will begin.

2 **To return to normal playback, press PLAY/▲.**



High Speed Searching (LP/SLP)

1 **During tape playback, press F.FWD/▶ or REW(ind)/◀, then press again.**
The TV/VCR will search the tape in high speed. Press F.FWD/▶ or REW(ind)/◀ repeatedly to switch between regular and high speed searching.

2 **To return to normal playback, press PLAY/▲.**

Viewing a Still Picture

1 **During tape playback, press PAUSE/STILL.**
A still picture will appear on the screen. The noise lines will move each time you press PAUSE/STILL.

2 **To release the still picture and return to normal playback, press PLAY/▲.**

Helpful Hints

- *Still mode will automatically switch to Stop mode after five minutes to protect the TV/VCR and the tape from damage.*
- *SP/LP/SLP means this feature will work with tape segments recorded in Standard Play, Long Play, or Super Long Play. LP/SLP means this feature will work with tape segments recorded in Long Play and Super Long Play. For details on tape speed, see page 24.*
- *During forward and reverse searching, horizontal noise lines will appear.*
- *Tapes recorded in SLP speed will have fewer noise lines during searching and Still mode.*
- *This TV/VCR will only record tapes in SP or SLP. It will play tapes that were recorded in LP on a different device (another VCR, for example).*

24 Recording

Follow the steps below to record a current TV program.

1 **Place a tape with its record tab intact (see page five) in the TV/VCR.** The power will come on. **Or, if the tape is already in the TV/VCR, press POWER to turn on the TV/VCR if necessary.**

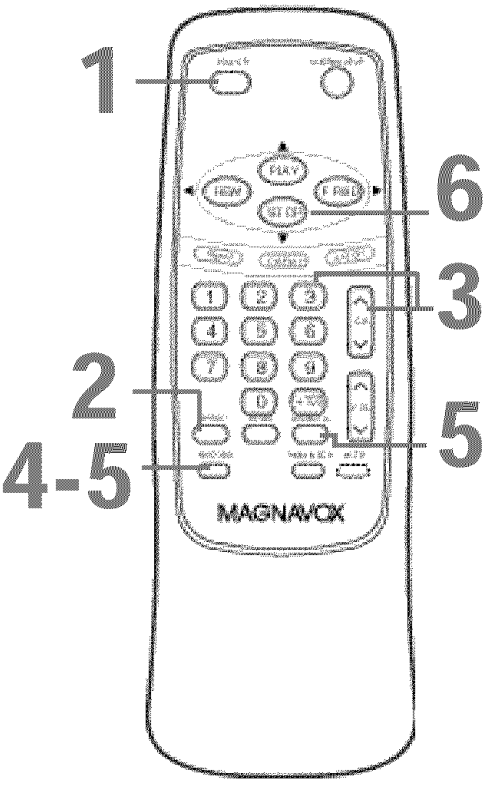
2 **Press SPEED until the desired tape speed (SP or SLP) appears on the TV/VCR screen.** *See tape speed details below.*

3 **Use CH(annel) ▲/▼ or the Number buttons to select the channel you want to record.** You cannot change channels during recording.

4 **Press RECORD once to start recording.** The red REC(ord) light will flash on the front of the TV/VCR. If the tape does not have a record tab, the TV/VCR will eject the tape immediately. Insert another tape and try again.

5 **To pause the recording (for example, during commercials), press PAUSE/STILL.** PAUSE will appear in the top left corner of the TV screen. **To resume recording, press PAUSE/STILL again or press RECORD.**

6 **To stop recording, press STOP/▼.**



Tape Speeds

This chart shows the recording/playback time for three types of video cassettes (T160, T120, and T60). There are three playback speeds: SP, LP, and SLP. A tape will play only in the speed in which it was recorded. When recording, you can change the tape speed using the SPEED button. You cannot record in LP speed on this TV/VCR.

The slower the speed, the more programming you can fit on the tape. SLP is the slowest speed. A faster speed gives better picture quality. SP is the fastest speed.

	Cassette type / Playback Time		
Tape Speed	T160	T120	T60
SP(Standard Play)	2 hrs. 40 mins.	2 hrs.	1 hr.
LP(Long Play) (playback only)	5 hrs. 20 mins.	4 hrs.	2 hrs.
SLP(Super Long Play)	8 hrs.	6 hrs.	3 hrs.

Helpful Hints

- *You cannot record one channel while watching another.*
- *Recording options are on pages 25-30.*
- *If you pause a recording for more than five minutes, the TV/VCR will resume recording automatically.*
- *You can change the tape speed with the SPEED button while a recording is in progress, but some distortion may appear on the tape.*

A One-Touch Recording (OTR) is an immediate timed recording from 30 minutes to eight hours long.

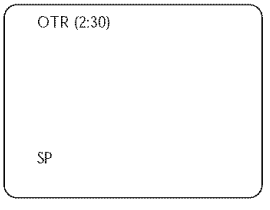
Before you begin, make sure ...

- The TV/VCR power is on and has a videotape with a record tab.
- If necessary, rewind or fast forward the tape to the point at which you want to begin recording.

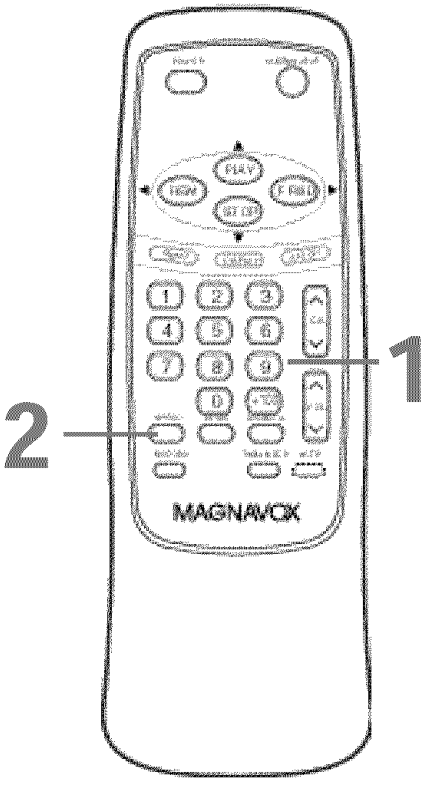
1 **Press the Number buttons or CH(annel) ▲/▼ to select the channel you want to record.** Remember, if the TV/VCR is connected to a Cable Box or Satellite Receiver, the TV/VCR must be on channel 3 or 4. Select the channel you want to record at the Cable Box/Satellite Receiver.

2 **Press SPEED to select a tape speed (SP or SLP).** *Details are on page 24.*

3 **Press REC/OTR on the front of the TV/VCR to select a recording length and start recording.** Each press of REC/OTR will increase the recording time by 30 minutes. You may select a maximum recording length of eight hours.
You cannot start an OTR with the RECORD button on the remote.



When recording finishes, the TV/VCR will turn itself off.



3 **Press REC/OTR on the front of the TV/VCR.**

Helpful Hints

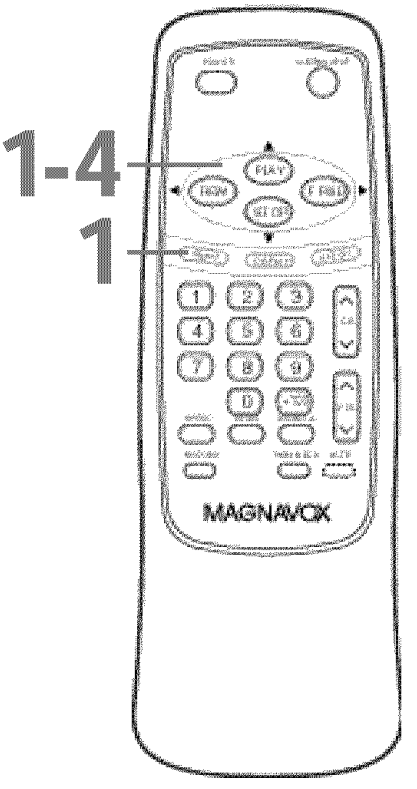
- *To stop an OTR, press STOP/▼.*
- *To show the remaining time, press DISPLAY. OTR and the remaining recording time will appear briefly.*
- *The maximum recording time of a T-160 tape in SLP speed is 8 hours (assuming you start at the beginning of the tape). A T-120 tape has a maximum of 6 hours recording time in SLP speed.*
- *If the tape ends before the recording's end time, the TV/VCR will stop recording, eject the tape, and turn itself off.*
- *You can turn off the TV/VCR during an OTR. The recording will continue at the length you set.*

26 Timer Recording

Follow the steps below to program the TV/VCR to record TV programs while you're away from home. The TV/VCR will turn itself on, record, and turn itself off automatically.

Before you begin, make sure ...

- The clock is set. If the clock is not set, MANUAL CLOCK SET appears when you select TIMER PROGRAMMING. See pages 14-15 to set the clock.
- Channels are set. *Details are on pages eight and 10.*
- A tape is in the TV/VCR.



1 **Press MENU. Press PLAY/▲ or STOP/▼ to select TIMER PROGRAMMING. Press F.FWD/►.**

```
- MENU -

► TIMER PROGRAMMING
  PICTURE CONTROL
  SETTING CLOCK
  CHANNEL SET UP
  USER'S SET UP
  LANGUAGE [ENGLISH]
  ZERO RETURN
  TIME SEARCH
```

2 **Press PLAY/▲ or STOP/▼ to select a program position. Then, press F.FWD/►.**

```
- TIMER PROGRAMMING -
CH  DATE    BEGIN  END
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
```

3 **Press PLAY/▲ or STOP/▼ until the channel number appears. Then press F.FWD/►.** If the TV/VCR is connected to a Cable Box or Satellite Receiver, the TV/VCR must be on channel 3 or 4. Set CH as 03 or 04 in the Timer Programming menu. Select the channel to be recorded on the Cable Box/Satellite Receiver.

```
- TIMER PROGRAMMING -
CH  DATE    BEGIN  END
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
```

4 The current date will flash beneath DATE. **For a one-time recording, press PLAY/▲ to select the date you want to record.**
Or, to record a TV program at the same time on the same channel every day, press STOP/▼ until EVRY DAY appears.
Or, to record a TV program at the same time on the same channel on the same day of every week, for example every Monday, press STOP/▼ until EVRY and the day of the week appear together (EVRY MON, EVRY TUE, etc.).
Finally, press F.FWD/►.

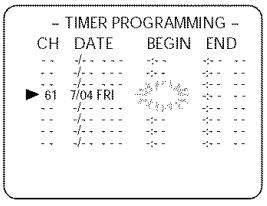
```
- TIMER PROGRAMMING -
CH  DATE    BEGIN  END
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
►61 -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
--  -/- --- --:--  --:--
```

Example: one-time recording

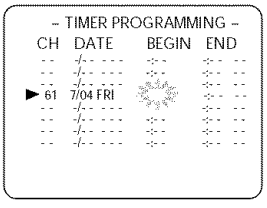
Helpful Hints

- *You should not operate the unit during a timer recording.*
- *If the tape ends before the recording is complete, the TV/VCR will stop recording immediately and eject the tape. The red REC light will come on. Insert a different tape to continue the recording. Or press POWER to turn on the TV/VCR. The timer recording will not occur.*
- *The red REC light will flash during a timer recording.*

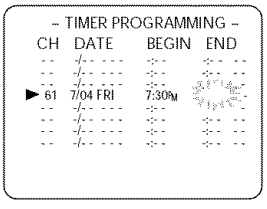
5 **Press PLAY/▲ or STOP/▼ until the beginning hour and AM or PM appears. Press F.FWD/►.**



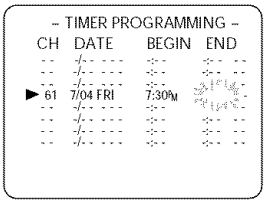
6 **Press PLAY/▲ or STOP/▼ until the beginning minute appears. Then, press F.FWD/►.**



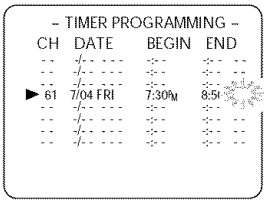
7 **Press PLAY/▲ or STOP/▼ until the end hour and AM or PM appears. Then, press F.FWD/►.**



8 **Press PLAY/▲ or STOP/▼ until the end minute appears. Press F.FWD/►.**

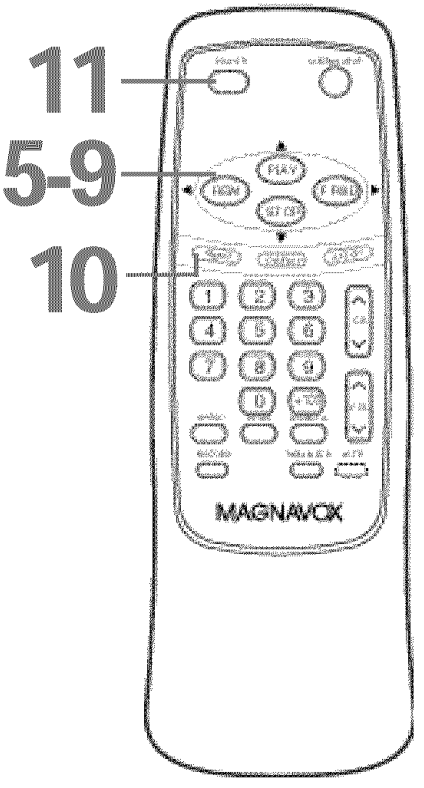


9 **Press PLAY/▲ or STOP/▼ to choose a tape speed (SP or SLP).**



10 **Press MENU to remove the menu.**

11 **Press POWER to turn off the TV/VCR and set the timer recording.** The red REC light will turn on at the front of the TV/VCR.
You must turn off the TV/VCR for a timer recording. If the power is on, TIMER REC STANDBY flashes on the screen two minutes before the recording is scheduled to begin. Turn off the TV/VCR.



Helpful Hints

- *Tape speed details are on page 24.*
- *With ShowGuard, you don't have to worry about losing your timer recordings. If the power fails, timer recordings will be restored when the clock is reset. The timer recording will not occur if it was scheduled to take place during the power failure.*
- *The videotape must have its record tab intact. If it is missing, the TV/VCR will eject the videotape when you turn off the TV/VCR.*

28 Timer Recording (cont'd)

Extending a Timer Recording

To make a Timer Recording start and end later than originally scheduled, follow these steps.

1. With the TV/VCR power on, press MENU. Press PLAY/▲ or STOP/▼ to select TIMER PROGRAMMING. Press F.FWD/►.
2. Press RECORD, then press PLAY/▲ or STOP/▼ to select the desired program. The BEGIN and END times of the selected program will flash.
3. Press RECORD again. Each press of RECORD will shift forward the beginning/end time by 10 minutes. If the recording is in progress, only the end time will shift forward. The recording speed will change to SLP.
   To restore the original recording times, press PAUSE/STILL.
4. Press MENU to remove the menu.
5. Press POWER to turn off the TV/VCR for the recording.

Correcting Timer Recording Details

1. With the TV/VCR on, press MENU. Press PLAY/▲ or STOP/▼ to select TIMER PROGRAMMING. Press F.FWD/►.
2. Press PLAY/▲ or STOP/▼ to select a timer recording, then press F.FWD/►.
3. Press F.FWD/► or REW/◄ to select an item. Press PLAY/▲ or STOP/▼ to enter the correct information.
4. Press MENU to remove the menu.

Cancelling Timer Recordings

To cancel a timer recording that is in progress:

1. Press POWER to turn on the TV/VCR, then press STOP/EJECT on the front of the TV/VCR.

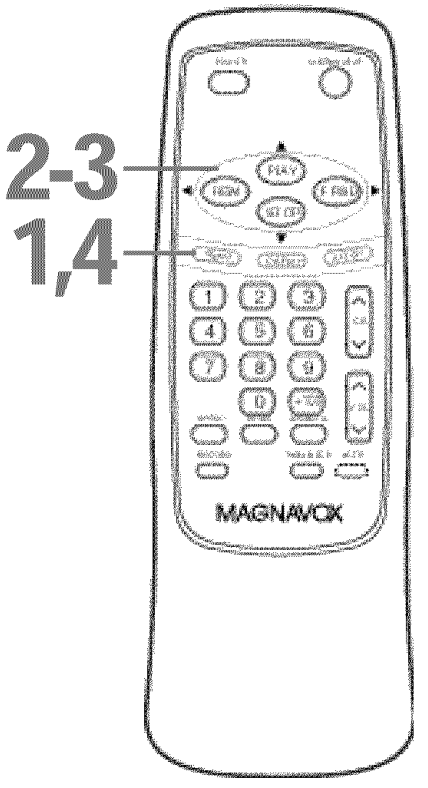
To cancel a timer recording that has not started:

1. With the TV/VCR power on, press MENU. Press PLAY/▲ or STOP/▼ to select TIMER PROGRAMMING. Press F.FWD/►.
2. Press PLAY/▲ or STOP/▼ to select a timer recording, then press F.FWD/►.
3. Press RESET.
4. Press MENU to remove the menu.

Checking Scheduled Timer Recordings

1. With the TV/VCR on, press MENU. Press PLAY/▲ or STOP/▼ to select TIMER PROGRAMMING.
2. Press F.FWD/►. The program details will appear on the screen.
3. Press MENU to remove the menu.

Turning on AUTO RETURN sets the TV/VCR to rewind the tape automatically to the beginning of the timer recordings.



1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select USER'S SET UP. Then, press F.FWD/►.**

```
- M E N U -

  TIMER PROGRAMMING
  PICTURE CONTROL
  SETTING CLOCK
  CHANNEL SET UP
► USER'S SET UP
  LANGUAGE [ENGLISH]
  ZERO RETURN
  TIME SEARCH
```

3 **Press PLAY/▲ or STOP/▼ to select AUTO RETURN. Press F.FWD/► or REW/◄ until ON appears beside AUTO RETURN.** To deactivate AUTO RETURN, select OFF.

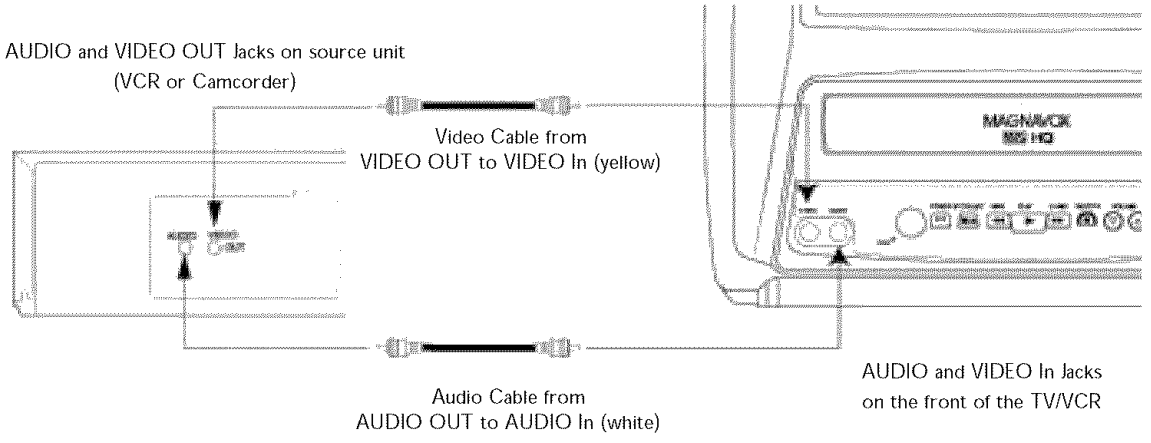
```
- USER'S SET UP -

  RENTAL          [OFF]
  REPEAT PLAY     [OFF]
► AUTO RETURN
```

4 **Press MENU.** When all timer recordings are completed, the TV/VCR will rewind the tape to the beginning of the recorded program(s).

Helpful Hints

- *If you press POWER while the tape is rewinding, Auto Return will stop.*
- *If there is a power failure, the TV/VCR will retain its memory for this feature.*

30 Rerecording (Tape Duplication)


AUDIO and VIDEO OUT Jacks on source unit
(VCR or Camcorder)
Video Cable from
VIDEO OUT to VIDEO In (yellow)
Audio Cable from
AUDIO OUT to AUDIO In (white)
AUDIO and VIDEO In Jacks
on the front of the TV/VCR

1 **Make the connections shown above, using audio and video cables (not supplied). Connect the source unit (VCR or camcorder) to a power source after connections are made.**

2 The VCR or camcorder will play your tape. **Insert a prerecorded tape in the source unit.** If playback begins, press STOP on the unit.

3 The TV/VCR will record your tape. **Insert a blank tape in the TV/VCR.** Make sure the tape's record tab is intact and the TV/VCR is on.

4 **Point the TV/VCR remote control at the TV/VCR. Press Number buttons 0, 0 so AUX appears on the screen.**
The TV/VCR is now in Line Input or Auxiliary mode. If you only want to watch material playing on the other VCR or camcorder, press PLAY on the source unit (VCR, etc.) now to start playback. The material will be shown on the TV/VCR's AUX channel. To dub the material, continue with steps 5-7.

5 **Point the TV/VCR remote control at the TV/VCR. Press SPEED until the desired tape speed (SP or SLP) appears on the screen.**

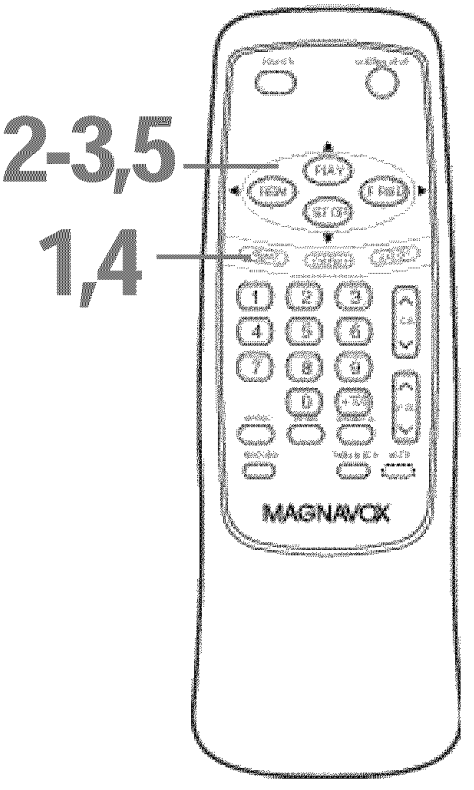
6 **Press PLAY on the source unit and REC(ord)/OTR on your TV/VCR at the same time.** Copying will begin.

7 **To stop copying, press STOP/EJECT on the TV/VCR, then stop the tape on the VCR or camcorder.**

Helpful Hints

- *Unauthorized recording of copyrighted television programs, video tapes, or other materials may infringe on the rights of copyright owners and violate copyright laws.*
- *Different brands of equipment may operate differently.*
- *Make sure all connections are secure. Otherwise, you may not record both picture and sound.*
- *Programs that are copyright protected may not record clearly.*
- *Tape speed details are on page 24.*

Repeat Play allows you to play a tape repeatedly.



1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select USER'S SET UP. Then, press F.FWD/►.**

```
- MENU -

TIMER PROGRAMMING
PICTURE CONTROL
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
LANGUAGE [ENGLISH]
ZERO RETURN
TIME SEARCH
```

3 **Press PLAY/▲ or STOP/▼ to select REPEAT PLAY.**
Press F.FWD/► or REW/◄ until ALL or BLANK appears. Choose ALL if you want to play tapes repeatedly from beginning to end. Choose BLANK to repeatedly play tapes from the beginning until the first blank portion of 10 seconds or more. Choose OFF to cancel Repeat Play.

```
- USER'S SET UP -

RENTAL                [OFF]
► REPEAT PLAY         [ALL]
AUTO RETURN           [OFF]
```

4 **Press MENU to remove the menu.**

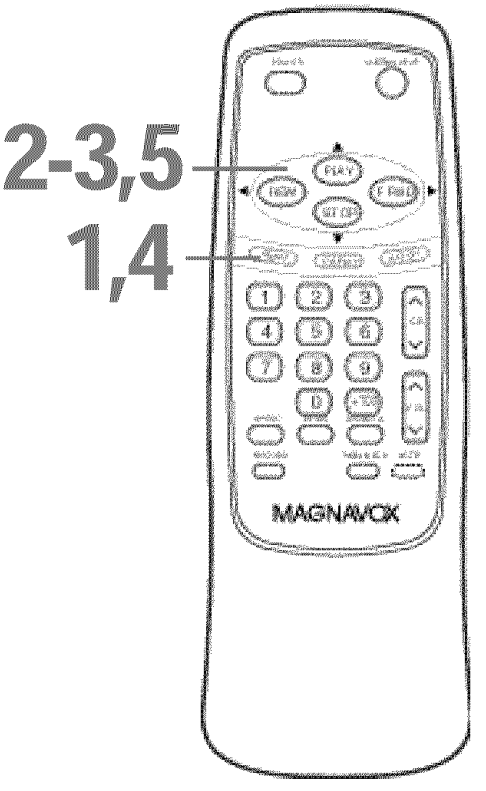
5 **Press PLAY/▲ to start tape playback.** REPEAT PLAY ► appears briefly on the screen each time you start playback.

Helpful Hints

- *Once you set Repeat Play, it stays in effect even after you turn off the TV/VCR. You must set it to OFF to disable it again.*
- *If RENTAL is ON, the RENTAL PLAY ► message has priority when you start playback. (REPEAT PLAY ► will not appear when you start playback.) Details are on page 32.*
- *The TV/VCR keeps the Repeat Play setting if the power fails.*

32 Rental Playback

This function improves picture quality of worn videotapes.



1 **Press MENU.**

2 **Press PLAY/▲ or STOP/▼ to select USER'S SET UP. Then, press F.FWD/►.**

```
- M E N U -

TIMER PROGRAMMING
PICTURE CONTROL
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
LANGUAGE [ENGLISH]
ZERO RETURN
TIME SEARCH
```

3 **Press PLAY/▲ or STOP/▼ to select RENTAL. Press F.FWD/► or REW/◄ until ON appears.**
To cancel Rental Play, choose OFF.

```
- USER'S SET UP -

► RENTAL          [ON]
  REPEAT PLAY     [OFF]
  AUTO RETURN     [OFF]
```

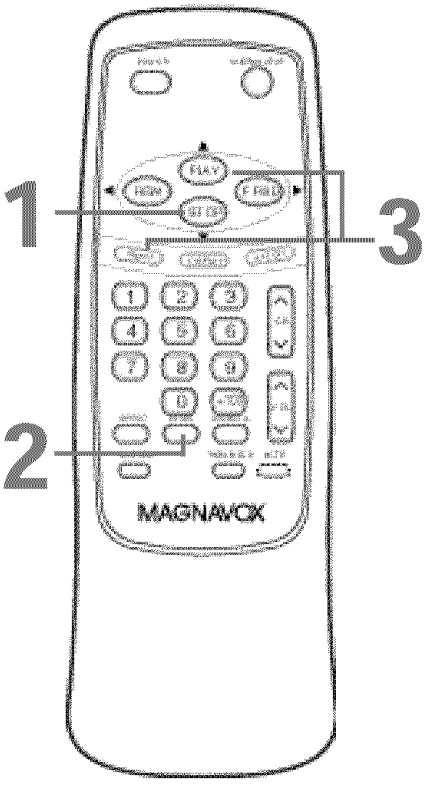
4 **Press MENU to remove the menu.**

5 **Press PLAY/▲ to start playback.**
RENTAL PLAY ► appears briefly every time you start playback while RENTAL is ON.

Helpful Hint

- *The TV/VCR retains the Rental setting if the power fails.*

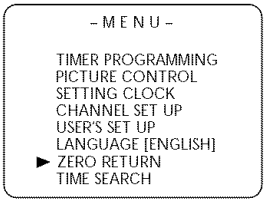
Follow the steps below to reset the counter to zero at a tape location you want to refer to later.



1 **Play, rewind, or fast forward the tape to the location you would like to refer to later. Press STOP/▼ to stop the tape.**

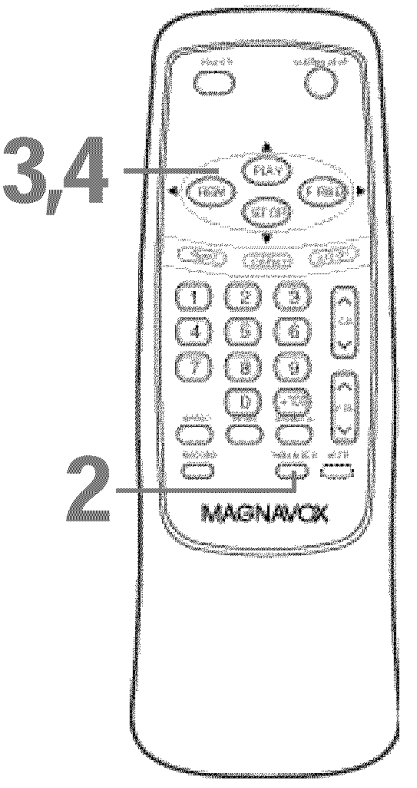
2 **Press RESET until you see the counter on the TV screen at 0:00:00.**

3 **When you later want to return to this point, press MENU. Press PLAY/▲ or STOP/▼ to select ZERO RETURN. Then, press F.FWD/►.** The counter will appear on the screen. When the tape reaches the point at which you set the counter to zero, the tape will stop. Press PLAY/▲ to watch the tape.



34 Time Search

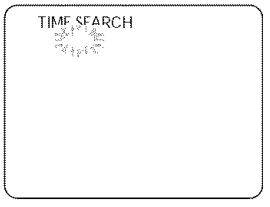
Time Search lets you rewind or fast forward a tape to a position by entering the amount of playback time you want to skip.
In the example below, Time Search is set to 2 hours, 50 minutes from the present position.



1 **Insert a tape.**

2 **Press TIME SEARCH.**

3 **Press PLAY/▲ or STOP/▼ until your length of time appears** (for example, 2:50 for 2 hours, 50 minutes). Each press changes the time by 10 minutes.
To cancel the Time Search at this point, press MENU.

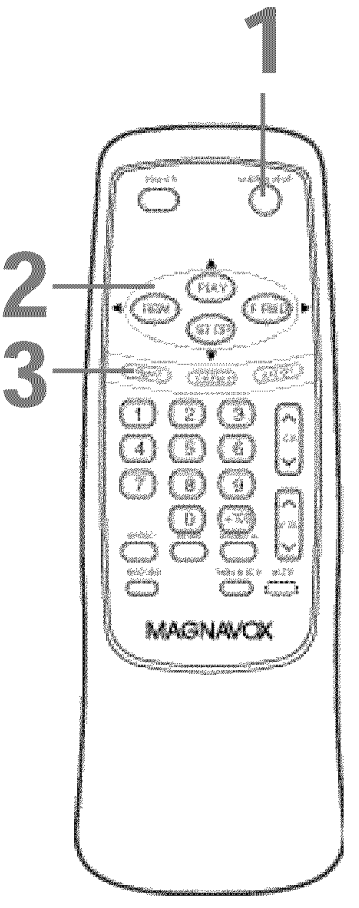


4 **Press REW/◄ or F.FWD/►.** The TV/VCR will rewind or fast forward the tape by the specified amount of time. The time counts down on the screen as the search progresses. When 0:00 is reached, the tape will start playback automatically.
Or, to cancel the time search before it finishes, press STOP/▼.

Helpful Hints

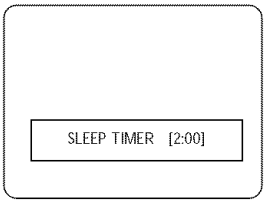
- *Time Search can be set up to a maximum of 9 hours 50 minutes (9:50) in 10-minute increments.*
- *Time Search is not available during recording.*

Use the Sleep Timer to program the TV/VCR to shut itself off in a certain amount of time.



1 **Press SLEEP/WAKE UP until SLEEP TIMER appears.**

2 **Press PLAY/▲, STOP/▼, F.FWD/► or REW/◄ until your desired amount of time appears.**
You may choose 30 minutes, one hour, an hour and a half, or two hours.



3 **Press MENU to remove the Sleep Timer display.**

Helpful Hints

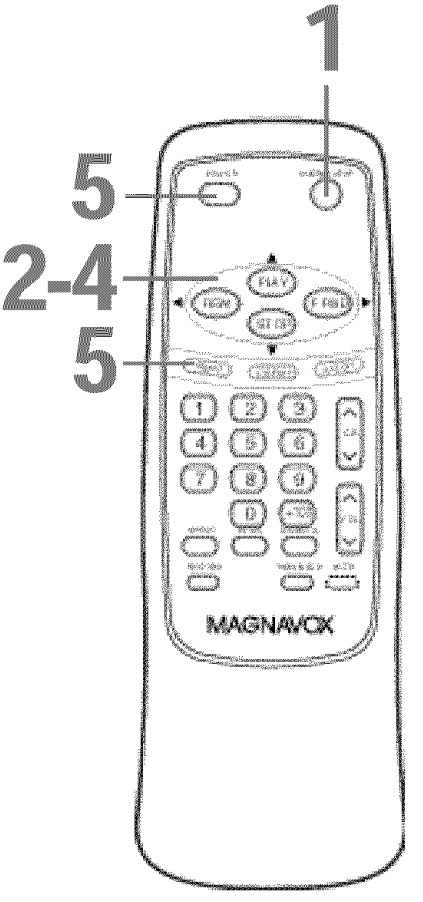
- *To cancel the Sleep Timer, press SLEEP/WAKE UP until SLEEP TIMER appears. Press PLAY/▲, STOP/▼, F.FWD/►, or REW/◄ to select OFF. Press MENU to remove the Sleep Timer display.*
- *To see how much time remains before the TV/VCR turns itself off, press SLEEP/WAKE UP twice. The time remaining flashes in the [ ] beside SLEEP TIMER. Press MENU to remove the information.*

36 Wake Up Timer

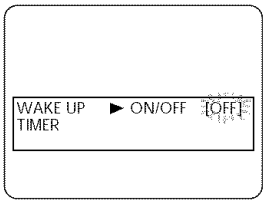
The Wake Up Timer turns on the TV/VCR automatically at a specified time within the next 24 hours. You may set the TV/VCR to turn on at a TV channel or with VCR playback.

Before you begin:

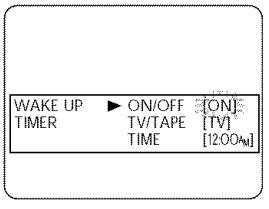
- Set the clock. *Details are on pages 12-15.* If the clock is not set, you cannot set the Wake Up Timer.
- Put a tape in the TV/VCR if you want the TV/VCR to start tape playback at the specified time.



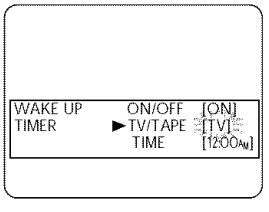
1 **Press SLEEP/WAKE UP until WAKE UP TIMER appears.**



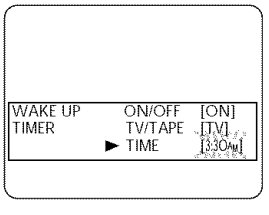
2 **Press F.FWD/► or REW/◄ until ON appears.**



3 **Press PLAY/▲ or STOP/▼to select TV/TAPE. Press F.FWD/► or REW/◄ to select TV or TAPE.** If you select TV, the current TV channel will be on when the TV/VCR turns on. Select TAPE to start tape playback when the TV/VCR turns on.



4 **Press PLAY/▲ or STOP/▼ to select TIME. Press F.FWD/► or REW/◄ to select your wake up time.**
Each button press changes the time by 10 minutes.



5 **Press MENU to remove the menu. Press POWER to turn off the TV/VCR.** The TV/VCR will turn on at the specified time.

Helpful Hint

- *To cancel the Wake Up Timer, press SLEEP/WAKE UP until WAKE UP TIMER appears, then press F.FWD/► or REW/◄ until OFF appears.*

Automatic Playback

When you put a tape in the TV/VCR, the power will come on automatically. If the tape's record tab is missing, playback will begin. If a timer recording is set, the power will not come on automatically when you insert a tape with the record tab intact. If a timer recording is set and the TV/VCR power is off, the TV/VCR will eject the tape if the record tab is missing.

Automatic Rewind, Eject, Off

When you play, fast forward, or record a tape to its end, the TV/VCR will rewind the tape, stop, turn itself off, and eject the tape.

Tape Eject

A tape can be ejected with the TV/VCR power on or off (but the TV/VCR must be connected to power). If a timer recording is programmed, a tape cannot be ejected when the power is off. In this case, turn on the TV/VCR power, then eject the tape. Be sure to insert a tape and turn off the TV/VCR power for the timer recording.

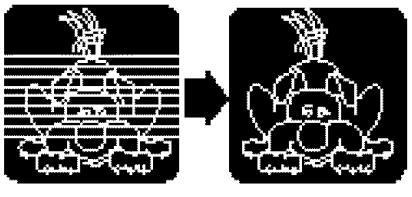
Automatic Tracking Adjustment

The TV/VCR automatically adjusts the tracking to give you the best possible picture quality. With some recordings, you may get a better picture using manual tracking.

Manual Tracking

To adjust the tracking manually, press the CHANNEL ▲/▼ buttons on the TV/VCR or the CH(annel) ▲/▼ button on the remote control during playback.
Tracking returns to Automatic Tracking Adjustment when you insert a tape or press STOP/▼.

Before Tracking Adjustment



After Tracking Adjustment

38 Helpful Hints

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.
If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

Location
For safe operation and satisfactory performance of your TV/VCR, remember the following:
- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation. Do not block the vents on the TV/VCR. Do not place the TV/VCR on a carpet, as this will block the vents.
- Avoid locations subject to strong vibrations.
- Do not place the TV/VCR near strong magnetic fields.
- Do not move the TV/VCR suddenly from a cold place to a hot place, or vice versa.
- Do not use this TV/VCR under high temperature conditions (maximum operating temperature: 104°F).

Electrical Shock and Fire Hazards
- Do not handle the power cords with wet hands.
- Do not pull the power cord when disconnecting it from the power outlet. Grasp it by the plug.
- If you spill water on the TV/VCR, unplug the power cords immediately and take the TV/VCR to an authorized service center.
- Do not put your fingers or objects into the TV/VCR cassette compartment.
- Do not place anything on top of the TV/VCR.

Dew Warning (Moisture Condensation)
- Moisture may condense inside the unit when you move it from a cold place to a warm place, after heating a cold room, or when the humidity is high. There is no warning that moisture is in your TV/VCR. Playing a tape in a TV/VCR in which moisture has accumulated could damage the tape and the TV/VCR. If you suspect moisture inside the TV/VCR, keep the TV/VCR power on (but do not play a tape) for at least two hours. This will allow the TV/VCR to dry.

TV/VCR will not perform a timer recording.
- Set the recording start and stop times correctly. *Details are on pages 26-28.* Midnight is 12 a.m. Noon is 12 p.m.
- Make sure the TV/VCR power is off before the recording's start time.
- Set the clock. *Details are on pages 12-15.*
- Put a tape in the TV/VCR. The tape must have a record tab.
- With ShowGuard, you don't have to worry about losing your timer recordings. If the power fails, timer recordings will be restored when the clock is reset. The timer recording will not occur if it was scheduled to take place during the power failure.

TV/VCR will not record.
- Make sure the tape has a record tab. *Details are on page five.*
- Plug the power cord into an active AC outlet. *Details are on page six.* Or, connect the car battery cord to the TV/VCR's DC 13.2V jack and to your vehicle's cigarette lighter. *Details are on page seven.*
- Check your hookups. *Details are on pages six-seven.*
- Set up the TV channels. *Details are on pages eight and 10.*

Channel reception is poor.
- Check connections, then set up the channels again. *Details are on pages eight and 10.*

TV/VCR power shuts off after 15 minutes.
- The TV/VCR will shut itself off after 15 minutes when it is on a channel that is not receiving a broadcast signal (for example, a station that has gone off the air for the night). This is normal.

TV/VCR ejects the tape when you try to start a recording.
- Make sure the tape has a record tab. *Details are on page five.*

The remote control is not available and you need to access the menu.
- Press CHANNEL ▲ or ▼ on the front of the TV/VCR to go to AUX (located before your lowest TV channel or at channel zero position). Press CHANNEL ▲ once to access the TV/VCR menu. Use the PLAY, REW, F.FWD, and STOP/EJECT buttons on the front of the TV/VCR to go through the menu. Press CHANNEL ▲ on the front of the TV/VCR again to remove the menu and go to your lowest TV channel. (Press CHANNEL ▼ on the front of the TV/VCR again to remove the menu and go to AUX.) *Details are on page 18.* If you cannot remove the menu, turn the TV/VCR off, then on again, to remove the menu.

TV/VCR has no power.
- Connect the AC power cord to an AC outlet completely. Or, connect the car battery cord to the TV/VCR's DC 13.2V jack and to your vehicle's cigarette lighter. *Details are on pages six-seven.*

TV/VCR does not have a picture.
- Adjust the antenna or check the Cable TV signal. *Details are on pages six-seven.*
- Adjust the TV/VCR picture controls. *Details are on page 21.*
- Select an active channel.

TV/VCR has poor sound or no sound.
- Adjust the volume or press the MUTE button to restore the volume.

Tape playback is poor or tape is destroyed.
- Adjust the tracking. *Details are on page 37.*
- Use the Rental feature. *Details are on page 32.*
- If moisture has accumulated in your TV/VCR, keep the power on for at least two hours, but do not try to play a tape. *Details are on page 38.*

Remote control does not operate the TV/VCR.
- Aim the remote control directly at the remote sensor on the front of the TV/VCR. *Details are on page 18.*
- Remove all obstacles between the remote control and the TV/VCR.
- Inspect and replace the batteries in the remote control. *Details are on page five.*

Number buttons will not select channels above 69.
- Enter channel numbers as a two-digit number. If you want to select channels 100 and above, press the +100 button, then the Number buttons for the last two digits.
- If you are using an antenna and do not have Cable TV service, only channels 2-69 are possible.

You cannot insert a tape into the TV/VCR.
- Insert the videotape with the window side up, with the record tab facing you and to the left.
- Make sure a tape isn't already in the TV/VCR by pressing the STOP/EJECT button on the front of the TV/VCR.
- Gently push on the center of the tape. Never force a tape into the TV/VCR.
- If you have set a timer recording and the TV/VCR power is off, the TV/VCR will eject the tape if the record tab is missing.

You cannot remove the tape from the TV/VCR.
- Make sure the power plug is completely connected to a power outlet. Or, make sure the car battery cord is completely connected to your vehicle's cigarette lighter.
- If a timer recording is programmed, turn on the TV/VCR power, then eject the tape. Be sure to insert a tape and turn off the TV/VCR power for the timer recording.
- Unplug the TV/VCR power cord for five minutes. Plug in the power cord again, then press the POWER button on the TV/VCR. If the tape does not eject, press the STOP/EJECT button on the TV/VCR three to five times. If the tape still does not eject, you may need to have an authorized servicer remove the tape.

The picture or color is faulty.
- Magnetism or geomagnetism from nearby equipment can affect the color in the TV picture. Move the TV/VCR away from other equipment; the color should correct automatically. Or, unplug the power cord and reconnect it after 30 minutes.

Automatic clock setting won't work.
- Disconnect the car battery cord from the DC 13.2V jack. Instead, connect the AC power cord to an AC power outlet to supply standard electrical power. *Details are on page six.*
- Make sure channels are set and you have connected an antenna or Cable TV signal to the TV/VCR. *Details are on pages six, eight, and 10.*

40 Glossary

AUDIO In Jack: white jack on the front of the TV/VCR that receives audio from other equipment.

Automatic Channel Setup: process in which the TV/VCR memorizes all available channels. Then, when you push the CH(annel) ▲/▼ button, you only scan through available channels.

Auxiliary (AUX): The channel to which you set your TV/VCR during dubbing or when viewing material that is playing on another device that is connected to the TV/VCR (for example, a camcorder or VCR). The auxiliary (or line input) channel is always channel 00 (AUX).

Bands: settings that allow you to tune channels.

- **Antenna** – VHF (very high frequency; channels 2-13) and UHF (ultra high frequency; channels 14-69).
- **Cable** – standard channels 1-125 are possible without a Cable Box.

Bright: adjusting increases or decreases the brightness of the color in the picture. Increasing the brightness adds white to the picture.

Color: adjusting pales or brightens the picture color. Decreasing the color makes the picture more black and white.

Contrast: the distinction between the black and white parts of the picture.

Dubbing: copying a tape using a separate VCR.

HQ: high quality; a circuitry feature that improves picture detail.

Mode: a TV/VCR operation.

OTR: One-Touch Recording; a timed recording that starts immediately and records for 30 minutes to eight hours, whichever you specify.

Sharpness: adjusting softens or clarifies the picture.

Tape Speeds: how fast the tape travels during playback or recording.

- **SP** (standard play) – fastest tape speed (recording time for a T120 tape is approximately two hours); best picture quality.
- **LP** (long play) – average tape speed; playback only.
- **SLP** (super long play) – slowest tape speed (recording time for a T120 tape is approximately six hours). Allows the most recording time to fit on a videotape.

Tint: adjusting changes the tints of the picture from red/purple to yellow/green.

VIDEO In Jack: yellow jack on the front of the TV/VCR that receives video from other equipment.

General

CRT: 9-inch in line gun
Television Color system: NTSC-M
Video Heads: Two heads
Tape width: 1/2 inch (12.65 mm)
Tape speed
SP: 33.35 mm/sec.
LP: 16.67 mm/sec.
SLP: 11.12 mm/sec.
Operating Temperature: 41˚F (5˚C) to 104˚F (40˚C)
Relative Humidity: 10% to 75%
Power requirement: AC 120V, 60 Hz/DC 13.2V
Power consumption: 55W (AC), 60W (DC)
Sound output: 0.8W
Dimensions:
13" (H) x 12-1/8" (W) x 12-15/16" (D) ┐ (MC09E1MG)
330 mm x 308 mm x 329 mm
14-1/2" (H) x 12-3/16" (W) x 12-1/64" (D) ┐ (MC092EMG)
368 mm x 310 mm x 332 mm
Weight: 18.5 lbs (8.4 kg)

Tuner Broadcast Channels

VHF 2-13, UHF 14-69

Cable TV Channels

1-125

Jacks

Antenna In: VHF/UHF 75 ohms unbalanced
Video In: RCA connector
Audio In: RCA connector
Earphone: 3.5 mm CES

Electrical Specifications

Video input level: 0.5~2.0Vp-p
Audio input level: -15dBv
Video S/N ratio
SP: More than 46dBμ
Audio S/N ratio
SP: More than 43dB

Designs and specifications are subject to change without notice and without our legal obligation.

42 Limited Warranty

TV/VCR COMBINATION

90 Days Free Labor/One Year Parts Exchange
This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter,* all parts will be repaired or replaced, and labor is free. *From 90 days to one year from the day of purchase,* all parts will be repaired or replaced, but you pay for all labor charges. *After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.*

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- damage caused by the use of non-VHS tapes or tapes that have not been tested and labeled for use in two, four, six, and eight hour VHS recorders.
- a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Magnavox. In countries where Magnavox does not distribute the product, the local Magnavox service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Take the product to a Magnavox factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Magnavox at:
1-800-705-2000.
(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Magnavox is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____
SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

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